**元智大學　醫學研究所碩士班 必選修科目表 （修訂版）**

**（112學年度入學新生適用）**

**List of Required Courses for the Master Program**

**Graduate Institute of Medicine, Yuan Ze University**

**(Applicable to Students Admitted in Academic Year of 2023)**

112.04.19 一一一學年度第六次教務會議通過

112.11.22 一一二學年度第五次教務會議修訂通過

|  |  |  |
| --- | --- | --- |
| 學年Year學期Semester科目Course | 第一學年1st Year | 第二學年2nd Year |
| 上學期Fall Semester  | 下學期Spring Semester | 上學期Fall Semester  | 下學期Spring Semester |
| 必修科目 Required Course(12) | MR501專題討論(一)Seminar I(3)  | MR502專題討論(二)Seminar Ⅱ(3) |  | 論文(Thesis)(6) |
| 核心科目Core Courses(12) | C | MR503細胞治療與生技產業Introduction to Cell Therapy and Biotech Industry (3) | MR504再生醫學與組織工程Regenerative Medicine and Tissue Engineering (3) |  |  |
| L | MR505認知神經科學與精準健康Cognitive neuroscience and precision health (3) | MR506高齡照護與遠距醫療Health care and telemedicine for elderly (3) |  |  |
| A | MR507醫學影像原理與應用Principles and Applications of Medical Imaging (3) | MR508人工智慧與醫學應用Artificial intelligence and its applications in medicine (3) |  |  |
| P | MR509轉譯醫學實務與應用Translational Research and Applied Medicine (3) | MR510創新醫療與精準醫學Innovation and precision medicine (3) |  |  |
|  |  |  |  |  |
| 選修科目Elective Courses | C | MR511基礎醫學專論Introduction to Basic Medical Sciences (3) | MR518細胞生物與訊息傳遞Cell Biology and Signal Transduction(3) | 細胞治療與再生醫學特論 |
|  |  |  | CH599生物醫學工程Biomedical Engineering (3) |
| L | MR512生理心理學研究方法Methods in psychophysiology (3) | MR513心智拓樸：社會神經科學研究Mind topology: Research in social neuroscience (3) | MR520大腦的社交天性:從實驗到臨床（一）(3) | MR522大腦的社交天性:從實驗到臨床（二）(3) |
|  |  | CB548醫療資訊與醫療決策Medical Informatics and Medical Decision Making (3) | ME611創新產品開發實務Innovative Product Development Practice (3) |
|  |  | ME567[老人福祉科技](https://portal.yzu.edu.tw/cosSelect/Cos_Plan.aspx?y=109&s=1&id=ME567&c=A)Introduction to Gerontechnology (3) |  |
| A | MR514人腦映像Human brain mapping (3) | MR515醫用工程數學Engineering mathematics in medicine (3) | MR521腦磁振造影資料視覺化和分析實作專論(一) (3) | MR523腦磁振造影資料視覺化和分析實作專論(二) (3) |
| MR517人工智慧與數位轉型Artificial Intelligence and Digital Transformation (3) |  | IM532知識探勘與資料剖析Knowledge Discovery and Data Mining (3) | IM507決策支援系統Decision Support Systems(3) |
|  |  |  | IM737智慧製造Smart Manufacturing (3) |
| P | MR519癌症基因體學Cancer Genomics and Precision Oncology (3) | MR516臨床醫學專論Introduction to Clinical Medical Sciences (3) | 精準醫療特論  |
|  |  | CB546轉譯醫學及臨床試驗Translational Medicine and Clinical Trial(3) |  |
| 備 註Remarks | * + - 1. 最低畢業計 33學分。除論文(6學分)、專題討論（6學分）及學術研究倫理外，至少應再修習核心科目12學分及選修科目至少9學分。Students must take a minimum of 33 credits for graduation. In addition to 6 credits of required thesis, 6 credits of seminar, and Academic Research Ethics Education Course, students must take 12 credits of core courses and 9 credits of elective courses.
			2. 碩士生在學期間應依其研究方向選擇C.L.A.P.四領域之一為專修領域，專修條件為通過該領域3門課，包含核心科目2門課及選修科目1門課，且此3門課均要求及格(70分以上)。 Students must choose one of the four programs (C, L, A, P) as their major study program. The completion of the program requires the credits of 2 core courses and 1 elective course in the respective major program being taken, with the minimal passing grade 70 points.
			3. 入學研究生須依本校學術研究倫理教育課程實施要點規定，於入學第一學期結束前完成學術研究倫理教育課程，最遲須於申請學位口試前補修完成，未完成本課程，不得申請學位口試。For those graduate students who shall complete Academic Research Ethics Education Course before the end of their first academic semester, they must follow the regulations of Yuan Ze University Academic Research Ethics Education Course Implementation Highlights. The latest deadline for them shall be their course completions and then their applications towards the degree’s oral exam.
 |

[AA-CP-04-CF0](http://www.yzu.edu.tw/admin/so/files/%E5%85%A7%E6%8E%A7%E6%96%87%E4%BB%B6/AA/AA-CP-04/AA-CP-04-CF04.pdf)3 (1.2 版)／101.11.15修訂